

# Internet Security for EDA

## Overview

### Internet security issues

Information sent from one computer to another can pass through numerous other computers before it reaches its destination. Normally, the users of these intermediary computers don't monitor the Internet traffic that routes through them, but someone can intercept and eavesdrop on your private conversations or credit card exchanges. Worse still, eavesdroppers might replace your information with their own and send it back on its way. Because of the architecture of the Internet and intranets, there will always be ways for unscrupulous people to intercept and replace data in transit.

### Objectives

Upon successful completion of this lesson, you will be able to:

- download a Personal Certificate
- view the details of a Personal Certificate
- use the Personal Certificate to encrypt EDA sessions

### List of Topics

This lesson covers the following topics:

- downloading Personal Certificates
- using Personal Certificates to encrypt EDA sites

## Downloading Personal Certificates

### Introduction

The user's system must first be equipped with a Netscape Browser that uses 128-bit Key encryption (Domestic/US Version), and the user must have a Personal Certificate.

The System Administrator handles these requirements by ensuring the users system is equipped with the necessary Netscape Browser, 128-bit Key encryption (Domestic/US Version) and the System Administrator will then request that a Personal Certificate be granted to the user.

### Query Serial Number

To query Personal Certificates click on "List Certificates" in the Netscape Certificate Server.

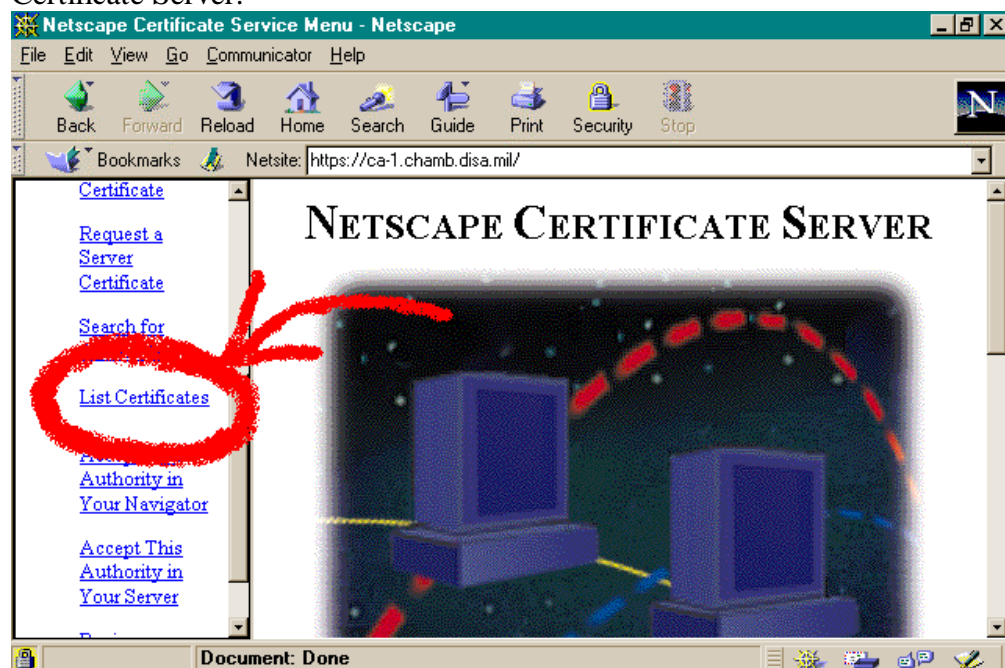


Figure A-1. List Certificates

In the left-hand frame of the Netscape Certificate Server screen the user will click "[List Certificates.](#)"

**Serial Number** When a Certificate is granted the user will receive a Serial Number of identification. The user will enter the Serial Number in the “List Certificates” window and then click “Run Query.”

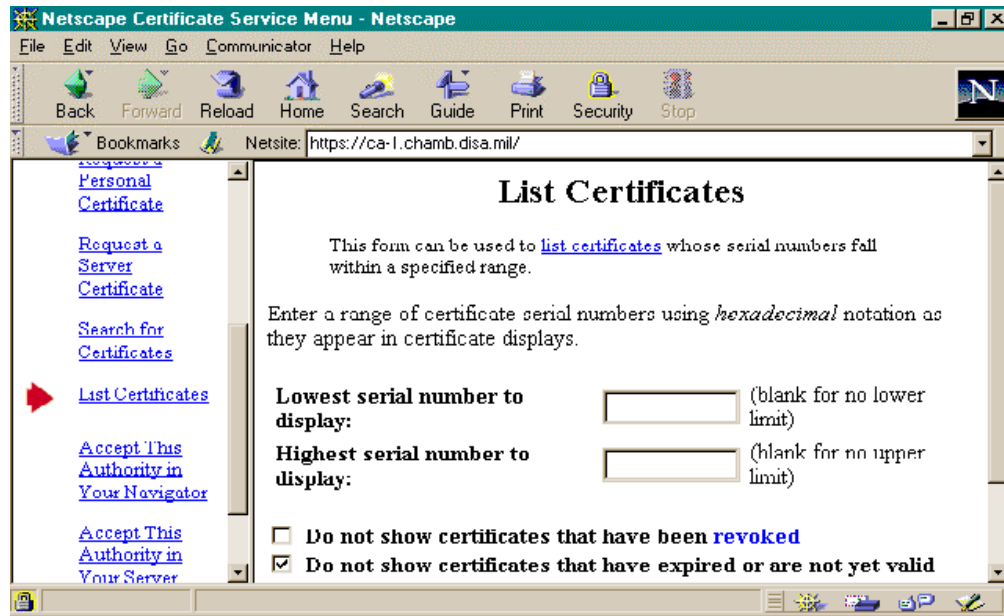


Figure A-2. Serial Number Query

Step	Action
1	Click the cursor in the “ <b>Lowest serial number to display</b> ” box.
2	Enter the serial number.
3	Click the cursor in the “ <b>Highest serial number to display</b> ” box.
4	Enter the serial number.
5	Click the “ <b>Do not show certificates that have been <b>revoked</b></b> ” box or the “ <b>Do not show certificates that have expired or are not yet <b>valid</b></b> ” box according to your query.
6	Click “Run Query.”

## Certificate Details

Click “Details” for the Certificate that matches the query.

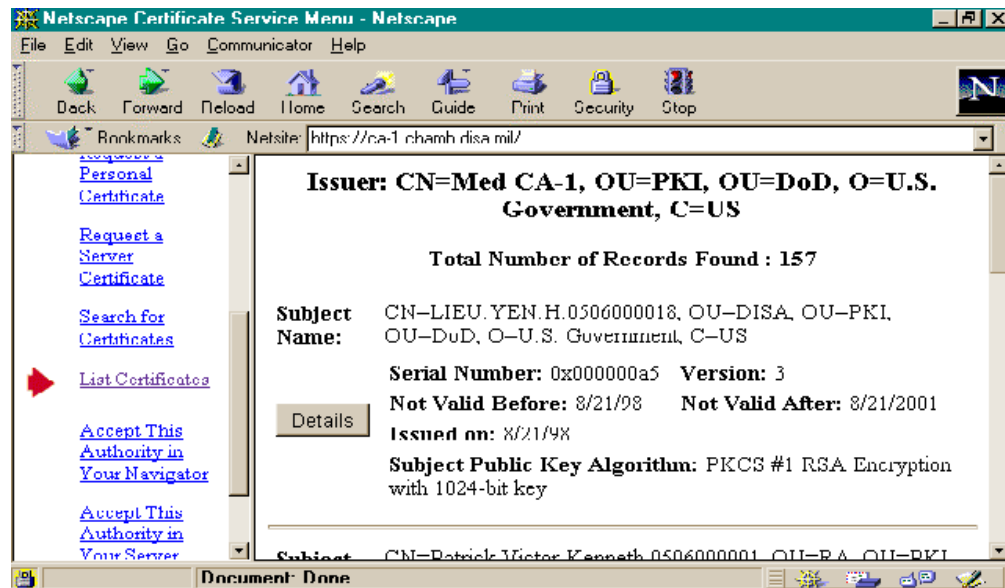


Figure A-3. Matching Query

## Hyper Link

Click on the Hyper link to download the Certificate onto your system.

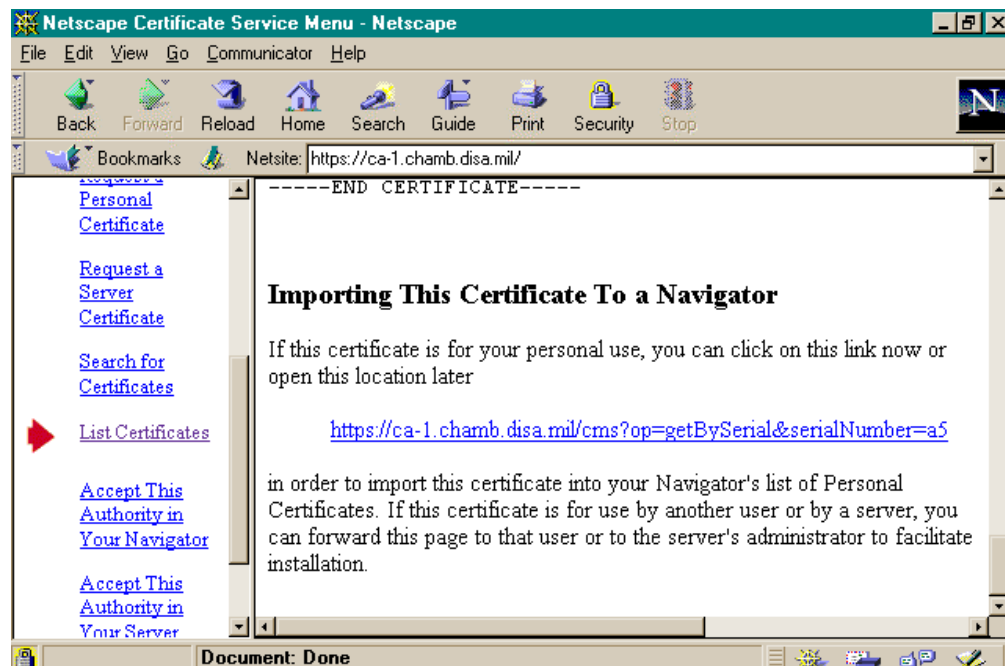


Figure A-4. Hyper Link

**Save User Certificate**

Click on **Save As** and decide where you would like to save your Certificate. If possible, you should save it on a floppy disk that you keep in a safe location.

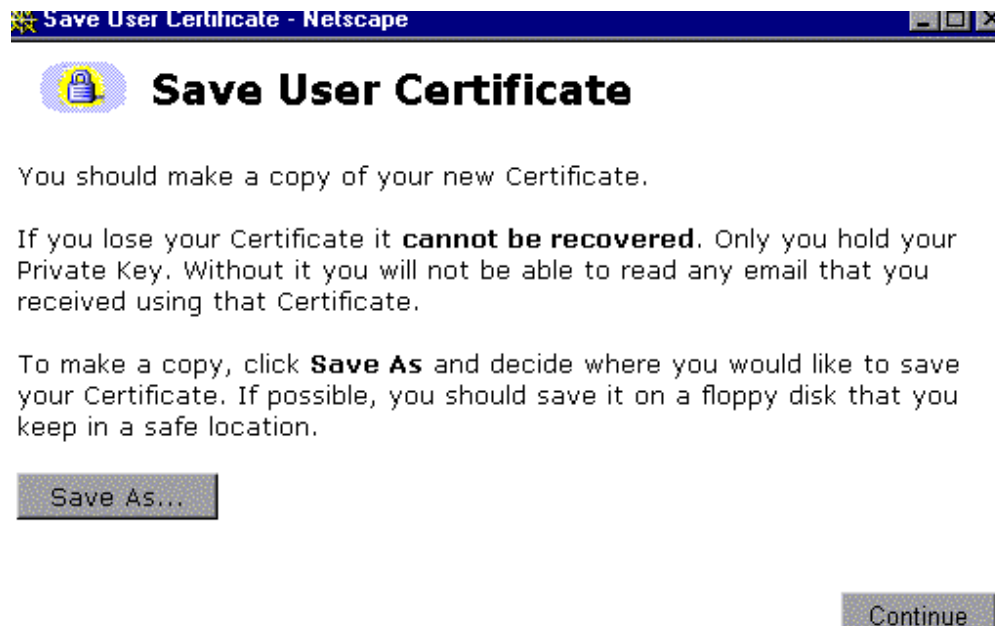


Figure A-5. Save User Certificate

**Password Entry Dialog**

Enter password to protect data being exported and then click **OK**.

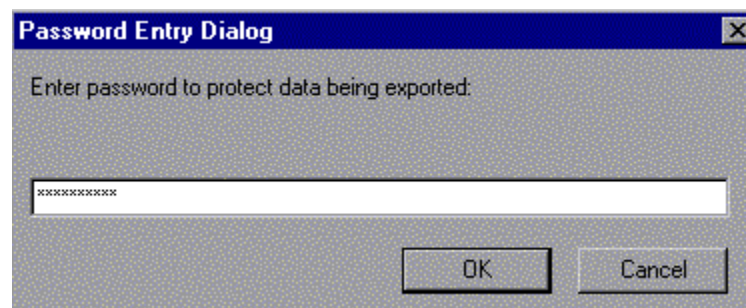


Figure A-6. Password Entry Dialog

**File Name to Export**

Give your Certificate a file name and designate the folder it will be saved in, and then click **Save**.

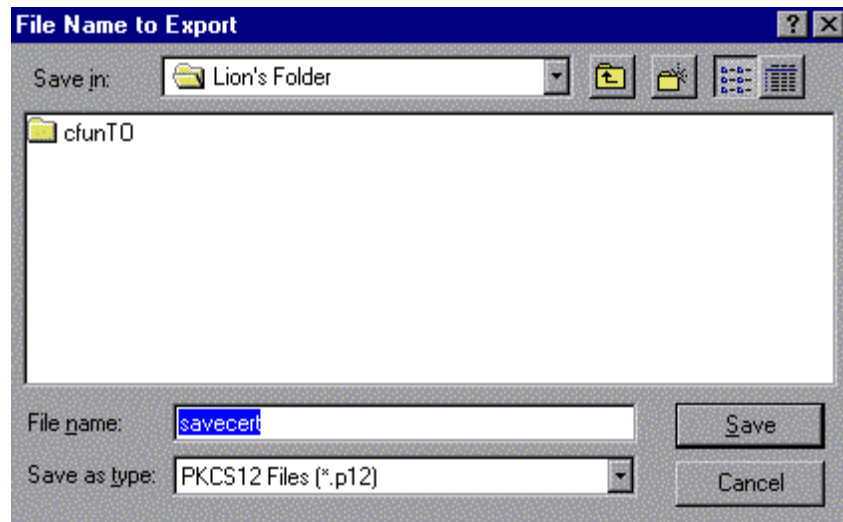


Figure A-7. File Name to Export

**Successfully Exported Dialog**

Click on **OK** after the certificate has been successfully exported.



Figure A-8. Successfully Exported Dialog

**New User  
Certificate**

Click on **OK** to install the certificate into Communicator or click **Cancel** to refuse your new Certificate.



Figure A-9. New User Certificate

## Securing Your EDA Session

**EDA Security** To secure your EDA session simply place an (s) after the “http” in the URL on your browser and press “Enter” while at the EDA site.

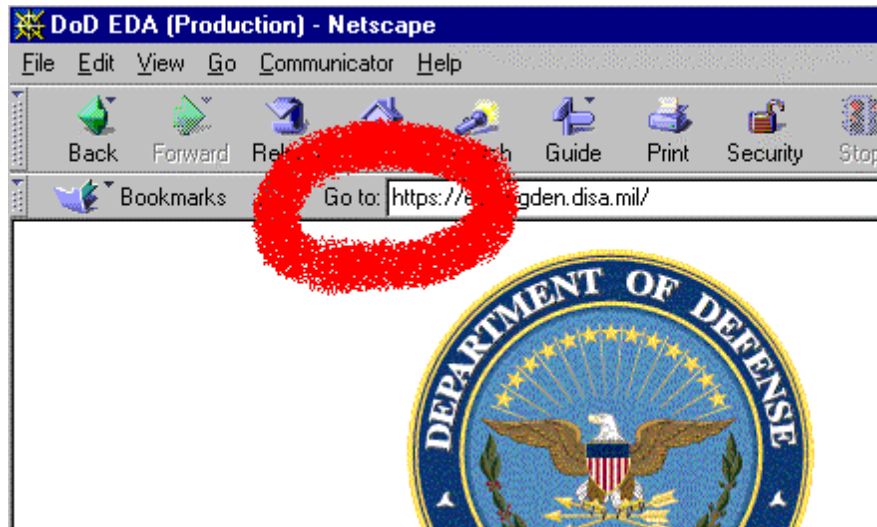


Figure A-10. Secure the URL



**Select A Certificate**

Netscape will prompt you to select the certificate you will use for your secured EDA session after which click “Continue.” To view the details of the certificate click “More Info...” on this screen.



Figure A-11 Select a Certificate

**View A  
Certificate**

The “View A Certificate” screen allows the user to view the details of the certificate, including who the certificate belongs to, who issued the certificate, the serial number, expiration date, and the certificate fingerprint. Clicking “OK” will take the user back to the “Select A Certificate” screen.

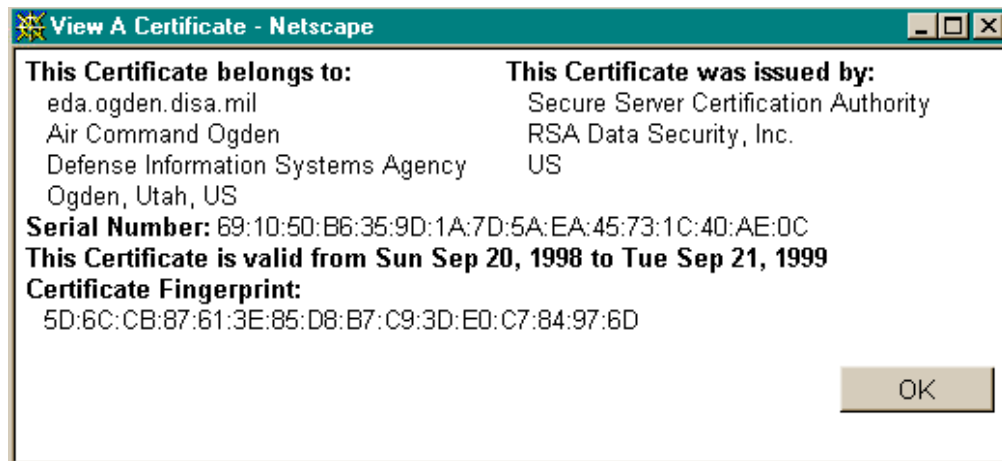


Figure A-12 View A Certificate

**Security Info** The “Security Info” screen is accessed by clicking the *Security* button on your browser. This screen also allows the user to view the details of the certificate, including who the certificate belongs to, who issued the certificate, the serial number, expiration date, and the certificate fingerprint.



Figure A-13 Security Info

**Security  
Information**

The Security Information screen will inform you that request and sent information will be encrypted for privacy. Click “Continue” and proceed with a secured EDA session.

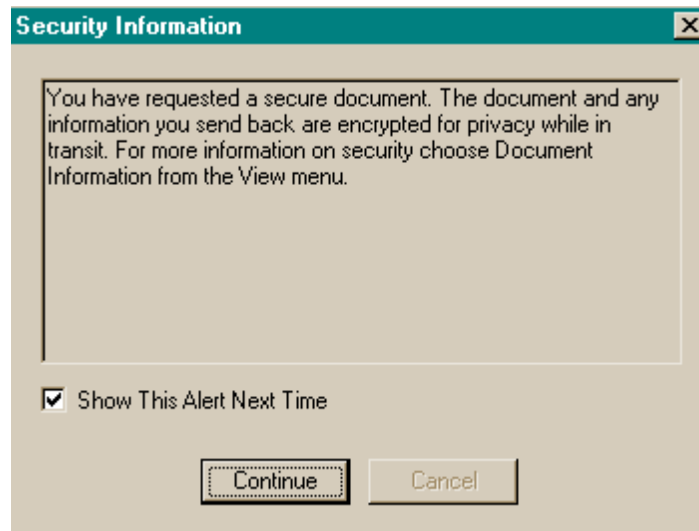


Figure A-14 Security Information

**No User  
Certificate**

If you do not have a Personal Certificate the “No User Certificate” screen will appear. Your system administrator will have to make a request for a Personal Certificate.

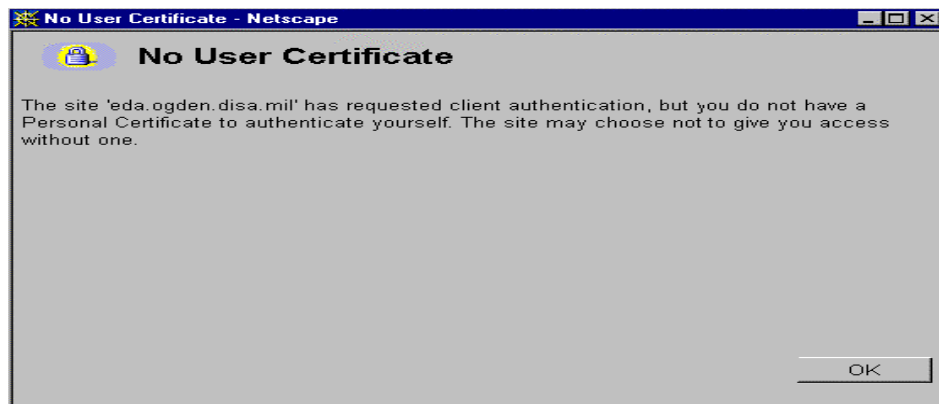


Figure A-15 No User Certificate

**Lock indicator** Assuming all requirements have been met, the “Lock” symbol will appear at the bottom left of the screen to indicate that the EDA session has been encrypted.



Figure A-16 Security Lock

## Summary

<b>Lesson Summary</b>	<p>This lesson outlined for the Netscape search criteria to help the user find and retrieve Personal Certificate information. The user can query according to the serial number that is provided by the system administrator.</p> <p>The search includes detailed information about the Personal Certificate. The user will be able to find desired information faster and more efficiently by using the Netscape List Certificate feature.</p>
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